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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,079	12/23/2003	Uming Ko	Ti-29632.1	8111
23494 TEXAS INSTR	7590 03/29/200 RUMENTS INCORPO	•	EXAMINER	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			FARAHANI, DANA	
		· · · · · · · · · · · · · · · · · · ·	ART UNIT	PAPER NUMBER
	·	•	2891	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
•	10/743,079	KO, UMING				
Office Action Summary	Examiner	Art Unit				
	Dana Farahani	2891				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 No.	ovember 2006.					
,	·					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 42-53 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 42-53 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:						

Application/Control Number: 10/743,079

Art Unit: 2891

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 42, 43, 45, 46, 48, 49, 51, and 52 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's Admitted Prior Art (AAPA), newly cited.

Re. Claims 42, 45, 48, and 51, AAPA discloses in figures 1 and 3, a semiconductor wafer which comprises:

a plurality of integrated circuits, each of said integrated circuits separated from the other of said integrated circuits by ascribe region at the periphery of each said integrated circuit; each of said integrated circuits including:

a centrally disposed core region 40;

at least one bond pad 12 disposed between said core region and said scribe region;

an electrostatic discharge device 14; and

an I/O buffer 16 disposed between said scribe region and said core region and laterally of said bond pad relative to said core region and said scribe region, when figure 1 is viewed such that it is turned 90 degrees in the clockwise direction.

Re. Claims 43, 46, 49, and 52, figure 1 discloses all the limitations in the claim, as discussed above. The ESD device would be partially beneath the bond pad, when the figure is viewed such that it is turned 180 degrees.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 44, 47, 50 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA.

AAPA discloses the claimed invention, as discussed above, except for I/O buffer is disposed laterally of said bond pad relative to the region and the scribe region. It would have been obvious to one of ordinary skill in the art at the time of the invention to rearrange the location of the buffer in order to maximize the real estate efficient usage of a wafer surface. See In re Japikse, 86 USPQ 70 for the proposition that rearranging parts of an invention involves only routine skill in the art.

Response to Arguments

5. Applicant's arguments with respect to the previously rejected claims have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (571)272-1706. The examiner can normally be reached on M-F 9:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571)272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DF

B. WILLIAM BAUMEISTER

Supervisory Patent Examiner Technology Center 2000